HITACHI

Inspire the Next

SERVICE MANUAL

PA	No. 0219

42HDX62A/DW1-UA
42HDT52A/DW1-UA
42HDS52A/DW1-UB

NTSC	DW1-U Chassis

R/C: CLU-3851WL / CLU-3852WL

This ADDENDUM is made due to the new models 42HDX62A (DW1-UA), 42HDT52A (DW1-UA) and 42HDS52A (DW1-UB). They are different to models 42HDX62 (DW1-UA), 42HDT52 (DW1-UA) and 42HDS52 (DW1-UB). The Main difference is that "without A" Models use "A2" Plasma Panel and "with A" Models use "A3" Plasma Panel. Software (Digital Main PWB) is also different because of Plasma Panel difference. Dimensions of both Family Models are SAME.

Refer to Service Manual PA0208 ("without A" Models) when service "with A" Models. All Adjustments are same. This ADDENDUM indicates only the Differences, Updates and Special Considerations to be taken when Servicing either Models.

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CAUTION: These servicing instructions are for use by qualified service personnel only. To reduce the risk of electric shock do not perform any servicing other than that contained in the operating instructions unless you are qualified to do so. Before servicing this chassis, it is important that technician read the “IMPORTANT SAFETY INSTRUCTIONS” in Service Manual PA0208 ("without A" Models).

SAFETY NOTICE
USE ISOLATION TRANSFORMER WHEN SERVICING

Components having special safety characteristics are identified by a ⚠ on the schematics and on the parts list in Service Manual 0208 ("without A" Models) . Before servicing the chassis, it is important that the service technician read and follow the “Important Safety Instructions” shown in Service Manual PA0208 ("without A" Models).

SPECIFICATIONS AND PARTS ARE SUBJECT TO CHANGE FOR IMPROVEMENT

PLASMA DISPLAY PANEL

APRIL 2006 **HHEA-MANUFACTURING DIVISION**

SPECIFICATIONS

Model	Panel
42HDX62 / HDT52 / HDS52	A2
42HDX62A / HDT52A / HDS52A	A3

Model	Indicated Value		Average Rating (W)	PST(W)		Chassis	TV Guide
	Maximum Ratings			w/out POD less than	w/POD less than 1W		
	(W)	(A)					
42HDX62 / HDX62A	370	3.3	236	0.5	14	DW1-UA	Yes
42HDT52 / HDT52A						DW1-UA	Yes
42HDS52 / HDS52A						DW1-UB	No

PARTS LIST UPDATE AND DIFFERENCES (Digital Sub PWB)

Refer Service Manual PA0208 for complete Parts List. Below Table shows UPDATED and DIFFERENCES List.

SYMBOL	P#	DESCRIPTION	SYMBOL	P#	DESCRIPTION
		Digital Sub PWB P#JA05978			**Digital Sub PWB (Update list)**
CN31	AA01123R	CCC105K10-B-16CT			CAPACITORS
HN30	CZ01271R	REMOCON MODULE (RPM5538-H12)			
LN31	BA10986R	LB2012 CHIP COIL 47UH 50MA	CR478	0893179R	CAP. CHIP CERAMIC 100000 PF 16V
QN01	CA02091R	SRC1204EF_PF	C482	0893179R	CAP. CHIP CERAMIC 100000 PF 16V
QN02	CA02091R	SRC1204EF_PF			
QN03	CA02091R	SRC1204EF_PF			RESISTORS
RN03	0790001R	RES. CHIP REC JUMPER			
RN06	0790033R	RES. CHIP 1/16W 470 OHM	R493	0790044R	RES. CHIP 1/16W 3.3 KOHM
RN07	0790039R	RES. CHIP 1/16W 1.5KOHM	R494	0790044R	RES. CHIP 1/16W 3.3 KOHM
RN09	0790055R	RES. CHIP 1/16W 22KOHM	RLX01	0790026R	RES. CHIP 1/16W 150 OHM
RN33	0790024R	RES. CHIP 1/16W 100 OHM	RX10	0790019R	RES. CHIP 1/16W 47 OHM
			RX16	0790026R	RES. CHIP 1/16W 150 OHM
		Digital Sub PWB P#JA06422			MISCELLANEOUS
CN31	AA01123R	CCC105K10-B-16CT	JNM1	EY01772R	SD MEMORY CARD 500998-0900
HN30	CE00121R	SBX3050-02			
LN31	BA10986R	LB2012 CHIP COIL 47UH 50MA			
QN01	CA02091R	SRC1204EF_PF			
QN02	CA02091R	SRC1204EF_PF			
QN03	CA02091R	SRC1204EF_PF			
RN03	0790001R	RES. CHIP REC JUMPER			
RN06	0790033R	RES. CHIP 1/16W 470 OHM			
RN07	0790039R	RES. CHIP 1/16W 1.5KOHM			
RN09	0790055R	RES. CHIP 1/16W 22KOHM			
RN11	0790001R	RES. CHIP REC JUMPER			
RN12	0790001R	RES. CHIP REC JUMPER			
RN33	0790024R	RES. CHIP 1/16W 100 OHM			

A) There are 2 Digital Sub PWB P#'s, use indicated parts for each PWB. Digital Sub PWB P#JA06422 is the latest PWB P# isued to All 42" Family Models. Differences includes change location of above components: inverse location from Component Side to Solder Side and viceversa. See next pages for reference.

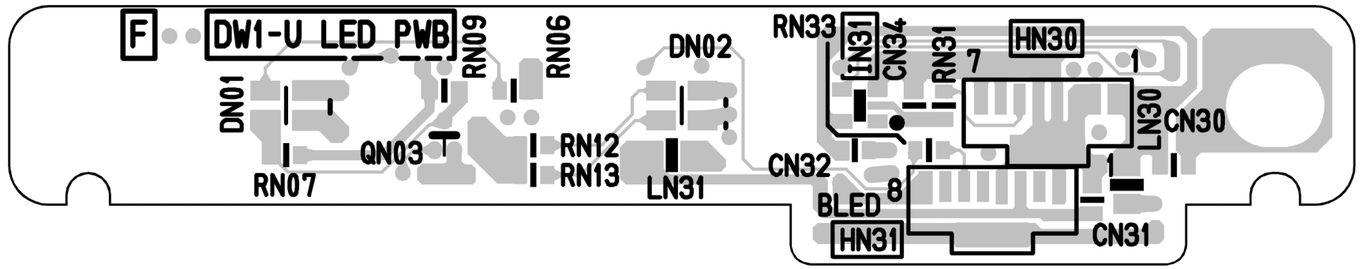
B) R493 & R494 added instead of C477 (P#0893115R) and C478 (P#0893115R) as a C/M for I2C Improvement on PWB P#8. For PWB P#JA00622 already layout was modified to include R493 & R494 locations.

C) "RLX01" (150 ohm) added instead of "LX01" and "RX10" (47 ohm) added instead a Jumper (P#0790001R). These modificationts were for FCC Improvement.

D) "JNM1" was changed to P#EY01772R from P#EY01771R for Improvement. Both P#'s can be used.

DW1-U LED PWB (Included on Digital Sub PWB, P#JA05978)

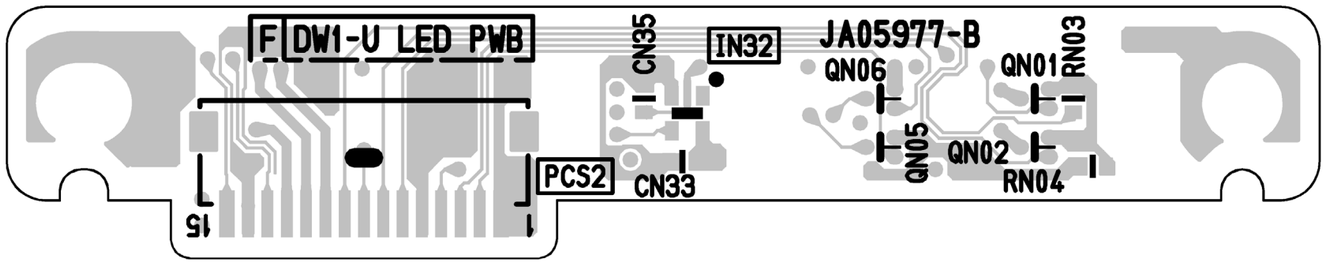
(Component side)



Component side

IC	DIODE
IN31	DN01 DN02 HN30 HN31
TRANSISTOR	
QN03	

(Solder side)

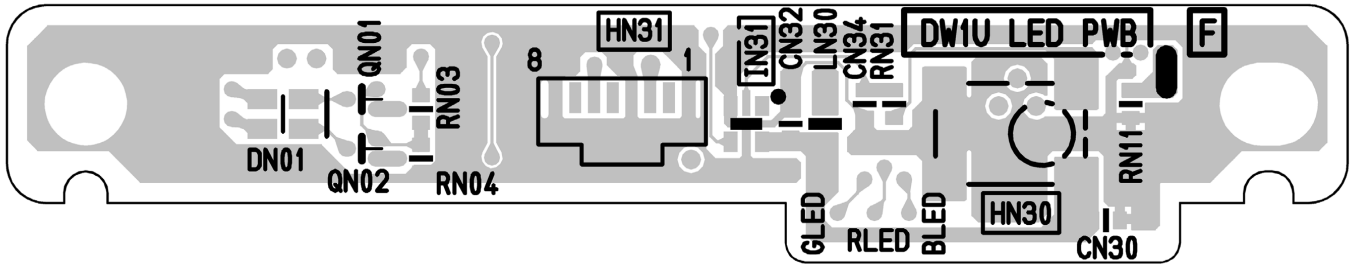


Solder side

IC
IN32
TRANSISTOR
QN01 QN02 QN05 QN06

DW1-U LED PWB (Included on Digital Sub PWB P#JA06422)

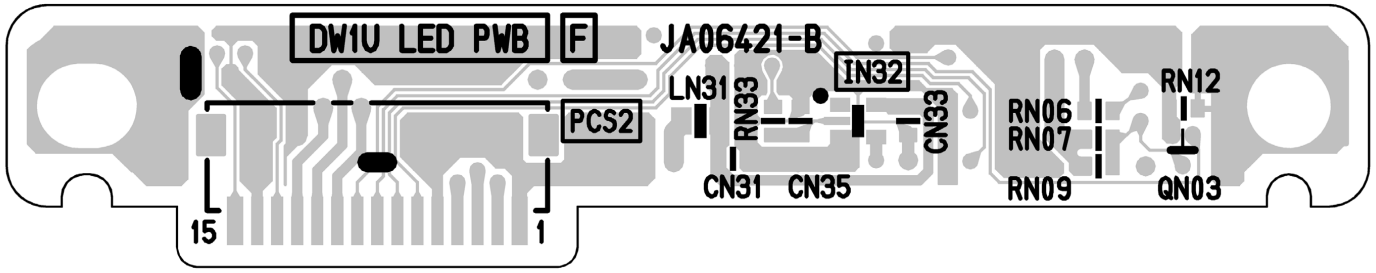
(Component side)



Component side

IC	DIODE
IN31	DN01 HN30 HN31
TRANSISTOR	
QN01 QN02	

(Solder side)



Solder side

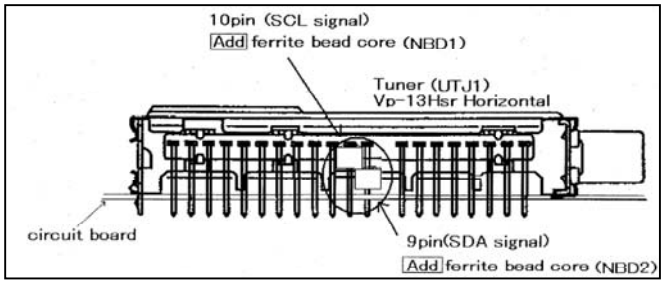
IC
IN32
TRANSISTOR
QN03

PARTS LIST UPDATE AND DIFFERENCES (Terminal PWB)

Refer Service Manual PA0208 for complete Parts List. Below Table shows UPDATED and DIFFERENCES List.

SYMBOL	P#	DESCRIPTION
		TERMINAL PWB
		CAPACITORS
CRR31	0893222R	CAP. CERAMIC CHIP 10000 PF 50V 1608
		COILS
NBD1	2771893	FERRITE BEADS CORE (005)
NBD2	2771893	FERRITE BEADS CORE (005)
		FILTERS
XTJ2	BK00191R	CHIP CERAMIC FILTER NFL21SP506
XTJ3	BK00191R	CHIP CERAMIC FILTER NFL21SP506
		RESISTORS
R181	0790001R	CHIP RESISTOR JUMPER
		MODULES
H101	CZ01241	GP1FM514TZ0F
		CONNECTORS
ESW	EF24711	8J VH-SDNX2 CONN. 350MM
		MISCELLANEOUS
N101	NA75382	DW1 TERMINAL SUPPORT METAL
ZPL	9413926W	SILICON RUBBER

Location for "NBD1" & "NBD2" Ferrite Beads and Silicon "ZPL" (Analog Tuner)



Part Numbers for Panel Boards

Part Number	Description
FPF29R-ABL0030	ABUS-L PWB
FPF29R-ABR0031	ABUS-R PWB
FPF29R-LGC0057	LOGIC PWB
FPF29R-XSS0037	X-SUS PWB
FPF29R-YSS0038	Y-SUS PWB
FPF42C128128UE5	Panel
HA01575	POWER UNIT

A) "RR31" was eliminated and added "CRR31" in same location. Related to Countemeasure of EMI Test.
B) NBD1 & NBD2 were issued as running change, to improve I2C line Communication between Tuner and Micon.
C) "XTJ2" and "XTJ3" were changed from P#BK00213R to P#BK00191R for improve of EMI Filter.
D) "R181" appears twice on Service Manual PA0208, so correct value is indicated above (Jumper Chip Resistor).
E) "H101", for Update List only.
F) "ESW" is only for Update List.
G) "N101" was changed from P#1 to P#2 as Countermeasure of Avoid Friction between PWB and Metal Support.

PARTS LIST UPDATE AND DIFFERENCES (Plasma Panels and Miscellaneous Parts)

Refer Service Manual PA0208 for complete Parts List. Below Table shows UPDATE and DIFFERENCES List.

SYMBOL	P#	DESCRIPTION	SYMBOL	P#	DESCRIPTION
		SPEAKERS			ACCESSORIES
SPB	GM01631	SPU DW1-U 42BTM SP	ESWVL	EW08431	8P PLUG CODE L=150MM (No "A" models)
SPL	GM01623	SPU DW1-U 42 SP L (HR)	ESWVL	EW08432	8P PLUG CODE L=165 MM ("A" Models)
SPR	GM01624	SPU DW1-U 42 SP R (HR)	N01	QR64864	42HDS52/52A INSTRUCTION BOOK #2
			N01	QR64865	42HDT52/52A INSTRUCTION BOOK
		PANEL ALLOCATION	N01	QR64866	42HDX62/62A INSTRUCTION BOOK
			U01	HL02065	REM. CONTROL CLU-3851WL(HDX/HDT)
		A2 Panel (42HDX62/HDT52/HDS52)	U01	HL02066	REM. CONTROL CLU-3852WL(HDS)
			U02	HL01864	SIMPLE REM. CONTROL CLU123S (HDX)
A01	DD00671K	Panel FPF42C128128UD-55			
A01 (C)	DD00672K	Panel FPF42C128128UD-85			
A02 (C)	TS06021	Logic Board (FPF28R-LGC45H)			
A03 (C)	TS06022	Logic Cover (FPF28R-PSP010)			
U1 (D)	HA01571	Power Supply (LSEP1198A1HB)			P.W.B.
#172	MN08181	DW1 42" Power Barrier			
A21	JP08531	PSA DW1-U Main Dig. PWB (HDX/HDT)	A21	JP08531	DW1-U Main Dig. PWB (HDX62/HDT52)
A22	JP08532	PSA DW1-U Main Dig. PWB (HDS)	A22	JP08532	DW1-U Main Dig. PWB (HDS52)
			A21	JP08535	DW1-UE Main Dig. PWB (HDX62A/HDT52A)
		A3 Panel models ("With A" Models)	A22	JP08536	DW1-UF Main Dig. PWB (HDS52A)
A01	DD00722K	Panel FPF42C128128UE-85	A11	JP08511	DW1-U Digital Sub PWB (All 42" Models)
A02	TS06293	Logic Board (FPF29R-LGC0057)	A21	JP08521	DW1-U Terminal PWB (All 42" Models)
U1 (D)	HA01573/4/5	Power Supply (LSEP1198A3 /A4 / A5HB)			
#175	NA77551	DW1 Power PWB Plate			
#176	MJ03598	Screw (5 pcs.) 3x8			
#222	NA79111	DW1 42" Barrier Metal			
#224	MS01241	HIMERON 22X595X1			
#226	MJ03895	Screw (2 pcs.) 4x10			
A21	JP08535	PSA DW1-UE Main Dig. PWB (HDX/HDT)			
A22	JP08536	PSA DW1-UF Main Dig. PWB (HDS)			
#126	ME04531	DW1 Flex Barrier			

A) Previous Speakers P#'s are as shown in Service Manual PA0208, Pag.138. Above Speakers are common and latest P#'s used on All 42" Models.

B) Panel "A01" (A2 Panel) , P#DD00671K used on Start of production, includes Logic Board.

C) Panel "A01" (A2 Panel) , P#DD00672K used on mayor production of "No A" models, with separated Logic Board ("A02", P#TS06021) & Logic Cover ("A03", P#TS06022), assembly porpouse only. These 3 Part #'s must be used together.

D) Power Supply differential points are :

P#HA01571: Original Part ("Without A" models only).
P#HA01573: Original Part (since first production: V5JXXXXXX production , "With A" models).
P#HA01574: Add Shut Down Countermeasure (V5KXXXXXX production, "With A" models).
P#HA01575: Add Antenna Discharge Test Countermeasure (V5LXXXXXX onwards, "Whit A" models).

Service Dept. must order P#4 & P#5, for a better performance of TV set. Antenna Discharge C/M is not a serious issue.

E) "#126" part added to "Without A" models on last production lots. For "With A" models, it applies since start of production. It's for isolate LED PWB, to avoid any possibility of contact with other metals, not a serious issue.

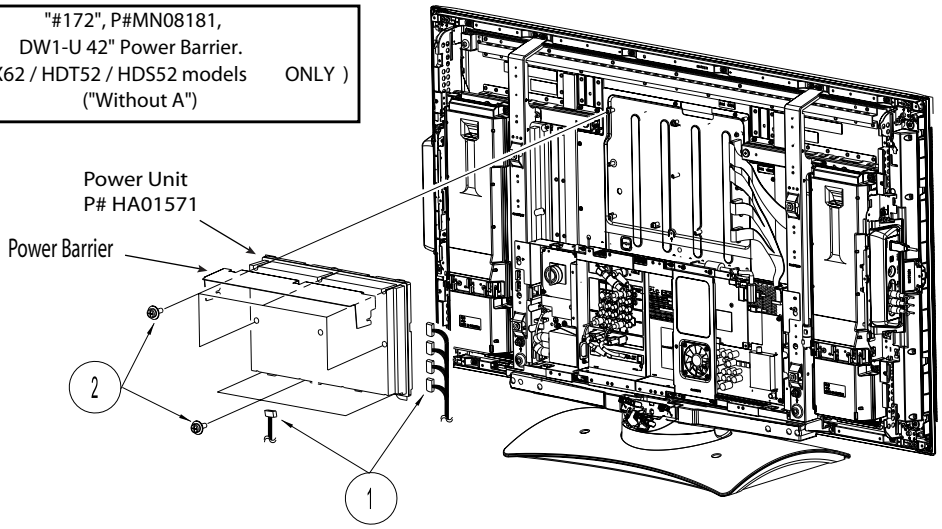
F) ESWVL is difference because of Improve length on "With A" Models , but it can be applied to both Family Models (P#2).

G) Digital Main PWB are different P#'s because of 2 Main Reasons:

1) Plasma Panel Difference, Software is different
2) HDX/HDT Models have TV Guide and HDS Models doesn't.

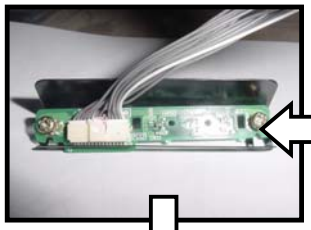
LOCATION OF PARTS (for Plasma Panel & Miscellaneous Parts).

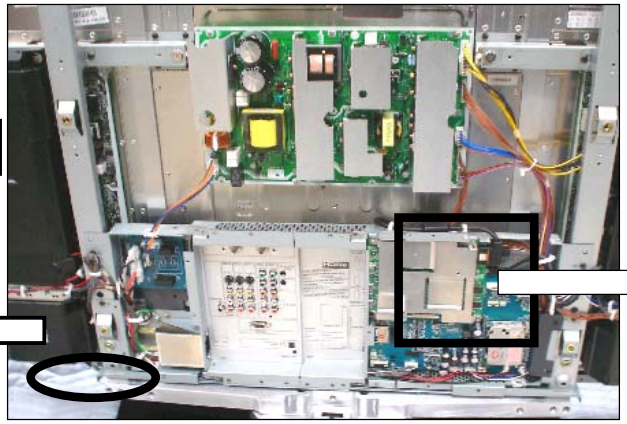
"#172", P#MN08181,
DW1-U 42" Power Barrier.
(42HDX62 / HDT52 / HDS52 models ONLY)
("Without A")



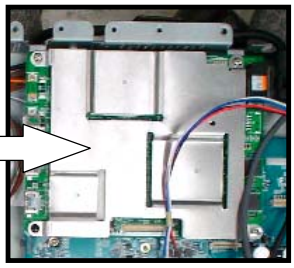
PLASMA 42", DW1-U, BACK VIEW

LED PWB & "#126", P#ME04531,
DW1 Flex Barrier.





"A21"/"A22" DIGITAL MAIN PWB



"#126", P#ME04531 DW1 Flex Barrier

ABOUT IDENTIFICATION OF MAIN DIGITAL PWB ASS'Y P#:

CHECK LETTER MARK TO IDENTFY
MAIN DIGITAL PWB ASS'Y P#

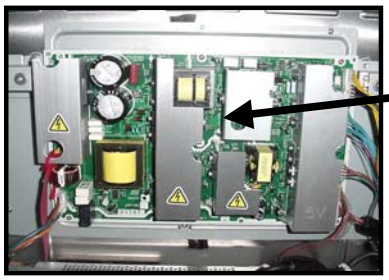
If the corresponding model has a P# different as shown below, apply correct Main Digital P#.

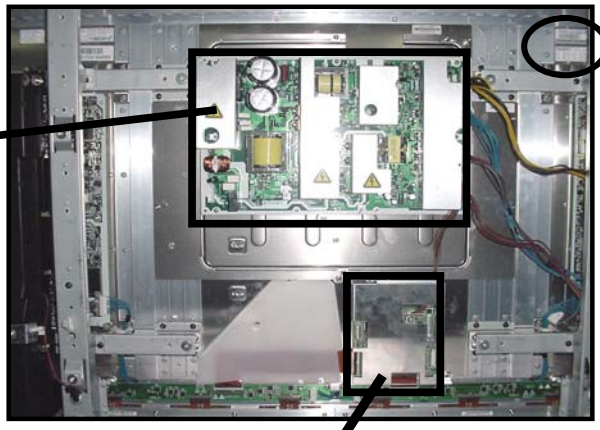
MODEL	P#	Letter Code	Description
42HDX62	JP08531	A	DW1-U MAIN DIG.
42HDT52	JP08531	A	DW1-U MAIN DIG.
42HDS52	JP08532	B	DW1-U MAIN DIG.
42HDX62A	JP08535	E	DW1-UE MAIN DIG.
42HDT52A	JP08535	E	DW1-UE MAIN DIG.
42HDS52A	JP08536	F	DW1-UF MAIN DIG.

LOCATION OF PARTS (for Plasma Panel & Miscellaneous Parts).

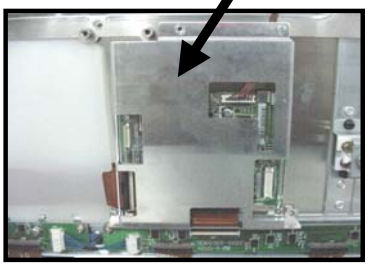
PLASMA 42", DW1-U, BACK VIEW (w/out VIDEO BLOCK)

"U1" POWER UNIT



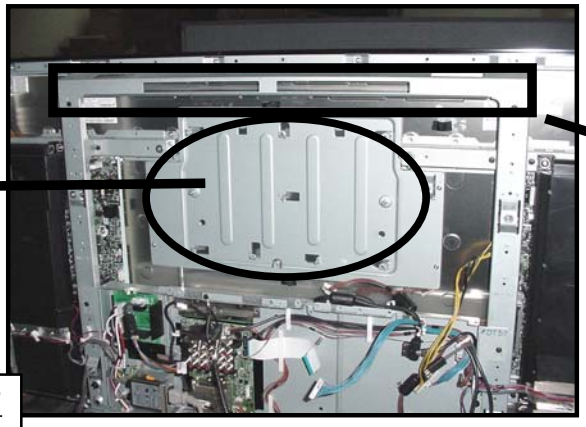


"A01" PANEL DESCRIPTION

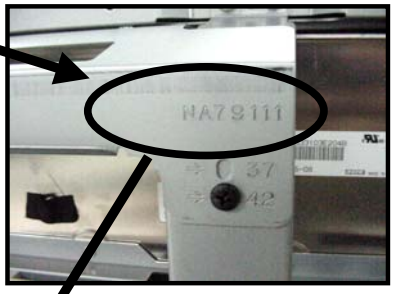


"A02" LOGIC BOARD & "A03" LOGIC COVER
("Without A" Models ONLY)

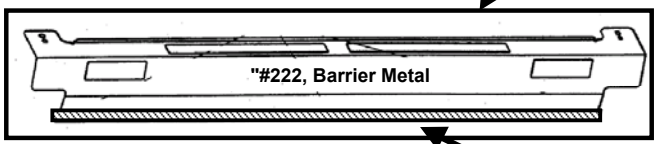
PLASMA 42", DW1-U, BACK VIEW



"#222", P#NA79111, DW1 42" Barrier Metal, requires 2 pcs. of Screw "#226", P#MJ03895 & "#224", Himeron Sheet
(**"With A" models only**)



"#175", NA77551, DW1-U Power PWB Plate, requires 5pcs of Screws "#176", P#MJ03598.
("With A" models only)



"#224", Himeron Sheet

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